

Appl. No. 10/667,958  
Atty. Docket No. CM2632MC  
Amtd. dated 10/14/2004  
Reply to Office Action of 07/14/2004  
Customer No. 27752

### AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Currently Amended) A composition suitable for treating hair comprising:
  - a) an oxidizing agent; and
  - b) a chelant (L) having a  $\frac{\log K_{CuL}}{\log K_{CaL}}$  ratio calculated at pH 10 of at least about 3.20;  
wherein  $\log K_{CuL}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $Cu^{2+}$  and  $\log K_{CaL}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $Ca^{2+}$ ;  
wherein said composition has a pH from about 9.5 to about 11.
2. (Currently Amended) A composition according to claim 1, wherein said chelant has a Hydrogen Peroxide Decomposition Ratio (% Loss) of less than about 3.5% as measured by the Hydrogen Peroxide Decomposition Ratio Measurement Protocol, as described herein.
3. (Original) A composition according to claim 1, wherein said chelant forms a hexadendate complex with  $Cu^{2+}$ .
4. (Canceled)
5. (Original) A composition according to claim 1, wherein said composition is in the form of an oil-in-water emulsion.
6. (Original) A composition according to claim 1, wherein said composition is in the form of a thickened aqueous solution.
7. (Original) A composition according to claim 1, wherein said oxidizing agent is present at a level of from about 0.1% to about 40% by weight of said composition and is selected from water-soluble oxidizing agents and mixtures thereof.

Appl. No. 10/667,958  
Atty. Docket No. CM2632MC  
Amtd. dated 10/14/2004  
Reply to Office Action of 07/14/2004  
Customer No. 27752

8. (Original) A composition according to claim 7, wherein said oxidizing agent comprises hydrogen peroxide.
9. (Original) A composition according to claim 1, wherein said chelant is present at a level of from about 0.01% to about 10% by weight of said composition.
10. (Original) A composition according to claim 1, further comprising at least one oxidative hair dye precursor.
11. (Currently Amended) A method of treating hair, said method comprising the steps of:
  - i) contacting hair with a first composition comprising a chelant (L) having a  $\frac{\log K_{CuL}}{\log K_{CaL}}$  ratio calculated at pH 10 of at least about 3.20; and
  - ii) contacting hair with a second composition comprising an oxidizing agent immediately after step i);  
wherein  $\log K_{CuL}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $Cu^{2+}$  and  $\log K_{CaL}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $Ca^{2+}$ ; and  
wherein said second composition has a pH from about 9.5 to about 11.
12. (Currently Amended) A method of treating hair, said method comprising the steps of:
  - i) contacting hair with a first composition comprising an oxidizing agent;
  - ii) contacting hair with a second composition comprising a chelant having a  $\frac{\log K_{CuL}}{\log K_{CaL}}$  ratio calculated at pH 10 of at least about 3.20; and
  - iii) contacting hair with a third composition comprising a second oxidizing agent;  
wherein steps i) and iii) are separated by at least 1 day and step ii) does not take place immediately before step iii); and  
wherein  $\log K_{CuL}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $Cu^{2+}$  and  $\log K_{CaL}$  is the common logarithm of the Conditional Stability Constant of said chelant with  $Ca^{2+}$ ; and  
wherein said first and third compositions have a pH from about 9.5 to about 11.
13. (Original) A kit for dyeing hair comprising a first and a second compositions packaged in different containers, wherein said first composition comprises an oxidizing agent and

Appl. No. 10/667,958  
Atty. Docket No. CM2632MC  
Amtd. dated 10/14/2004  
Reply to Office Action of 07/14/2004  
Customer No. 27752

said second composition comprises an oxidative dye precursor, wherein the resulting mixture of said first and second compositions is a composition according to claim 10.

14. (Original) A method of dyeing human hair, said method comprising the steps of:

- i) mixing the first and second composition of a kit according to claim 13;
- ii) contacting hair with the mixture obtained on step i);
- iii) massaging said mixture into hair;
- iv) retaining said mixture on the hair for an amount of time sufficient for mixture to dye the hair;
- iv) rinsing off said composition with water.